Smart Skies			
2009 Mathematics			
Core Curriculum			
Iowa Mathematics			
Grades 3-5			
Activity/Lesson	**State**	**Standards**	
Fly by Math	IA	MA.3-5.3.4.2	Make and use coordinate systems to specify locations and to describe paths.
Fly by Math	IA	MA.3-5.3.4.3	Explore methods for measuring the distance between two locations on the grid along horizontal and vertical lines.
Fly by Math	IA	MA.3-5.4.1.2	Construct and analyze frequency tables, bar graphs, picture graphs, and line plots and use them to address a question.
Line Up with Math	IA	MA.3-5.3.4.3	Explore methods for measuring the distance between two locations on the grid along horizontal and vertical lines.
Line Up with Math	IA	MA.3-5.3.5.1	Develop measurement concepts and skills through experiences in analyzing attributes and properties of two- and three-dimensional objects.
Smart Skies			
2009 Mathematics			
Core Curriculum			
Iowa Mathematics			
Grades 6-8			
Activity/Lesson	**State**	**Standards**	
Fly by Math	IA	MA.6-8.2.2.3	Graph proportional relationships and identify the constant of proportionality as the slope of the related line.
Fly by Math	IA	MA.6-8.2.4.2	Understand that the slope of a line is constant, for example by using similar triangles (e.g., as shown in the rise and run of "slope triangles"), and compute the slope of a line using any two points on the line.
Fly by Math	IA	MA.6-8.2.5.2	Relate a system of two linear equations in two variables to a pair of lines in the plane that intersect, are parallel, or are the same.
Line Up with Math	IA	MA.6-8.1.5.4	Graph proportional relationships and identify the constant of proportionality as the slope of the related line.
Line Up with Math	IA	MA.6-8.2.4.1	Understand linear functions and slope of lines in terms of constant rate of change.
Line Up with Math	IA	MA.6-8.2.4.2	Understand that the slope of a line is constant, for example by using similar triangles (e.g., as shown in the rise and run of "slope triangles"), and compute the slope of a line using any two points on the line.
Line Up with Math	IA	MA.6-8.2.4.6	Use linear functions, and understanding of the slope of a line and constant rate of change, to analyze situations and solve problems.

Line Up with Math	IA	MA.6-8.3.4.6	Apply the Pythagorean theorem to find distances between points in the Cartesian coordinate plane and to measure lengths and analyze polygons.
Smart Skies			
2009 Mathematics			
Core Curriculum			
Iowa Mathematics			
Grades 9-12			
Activity/Lesson	**State**	**Standards**	
Fly by Math	IA	MA.9-12.2.1	Represent and solve geometric problems by specifying location using coordinates
Line Up with Math	IA	MA.9-12.1.4	Understand, analyze, approximate, and interpret rate of change